



PATENT
Atty. Dkt. AMAT/6766/CPI/LB/PJS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re Application of:
Chen, et al.

Serial No.: 10/712,690

Confirmation No.: 9100

Filed: November 13, 2003

For: Apparatus And Method For Hybrid Chemical Processing

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Group Art Unit: 1734

**Examiner:** Unknown

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**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

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**37 CFR 1.8**

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Signature

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The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

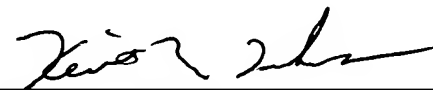
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The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/6766/KMT.

Respectfully submitted,



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PTO/SB/08a (08-03)

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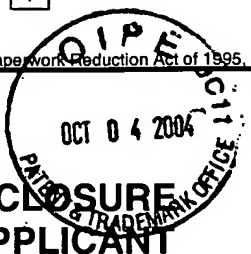
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|                        |                       |
|------------------------|-----------------------|
| Application Number     | 10/712,690            |
| Filing Date            | November 13, 2003     |
| First Named Inventor   | Chen, et al.          |
| Group Art Unit         | 1734                  |
| Examiner Name          | Unknown               |
| Attorney Docket Number | AMAT/6766/CPI/L/B/PJS |
| Submission Date        | September 29, 2004    |

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|-------|---|----|---|

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A1                    | US-6778762                               | 08/17/2004                     | Shareef, et al.                                    |                                                                                 |
|                    | A2                    | US-6660126                               | 12/09/2003                     | Nguyen, et al.                                     |                                                                                 |
|                    | A3                    | US-6632279                               | 10/14/2003                     | Ritala, et al.                                     |                                                                                 |
|                    | A4                    | US-6630201                               | 10/07/2003                     | Chiang, et al.                                     |                                                                                 |
|                    | A5                    | US-6630030                               | 10/07/2003                     | Suntola, et al.                                    |                                                                                 |
|                    | A6                    | US-6620723                               | 09/16/2003                     | Byun, et al.                                       |                                                                                 |
|                    | A7                    | US-6607976                               | 08/19/2003                     | Chen, et al.                                       |                                                                                 |
|                    | A8                    | US-6579372                               | 06/17/2003                     | Park                                               |                                                                                 |
|                    | A9                    | US-6596602                               | 07/22/2003                     | Iizuka, et al.                                     |                                                                                 |
|                    | A10                   | US-6585823                               | 07/01/2003                     | Van Wijck                                          |                                                                                 |
|                    | A11                   | US-6579372                               | 06/17/2003                     | Park                                               |                                                                                 |
|                    | A12                   | US-6578287                               | 06/17/2003                     | Aswald                                             |                                                                                 |
|                    | A13                   | US-6572705                               | 06/03/2003                     | Suntola, et al.                                    |                                                                                 |
|                    | A14                   | US-6569501                               | 05/27/2003                     | Chiang, et al.                                     |                                                                                 |
|                    | A15                   | US-5261959                               | 11/16/1993                     | Gasworth                                           |                                                                                 |
|                    | A16                   | US-6416822                               | 05/27/2003                     | Chiang, et al.                                     |                                                                                 |
|                    | A17                   | US-5730802                               | 03/24/1998                     | Ishizumi, et al.                                   |                                                                                 |
|                    | A18                   | US-5338362                               | 08/16/1994                     | Imahashi                                           |                                                                                 |
|                    | A19                   | US-5261959                               | 11/16/1993                     | Gasworth                                           |                                                                                 |
|                    | A20                   | US-4975252                               | 12/04/1990                     | Nishizawa, et al.                                  |                                                                                 |
|                    | A21                   | US-20040046197                           | 03/11/2004                     | Basceri, et al.                                    |                                                                                 |
|                    | A22                   | US-20040033698                           | 02/19/2004                     | Lee, et al.                                        |                                                                                 |
|                    | A23                   | US-20040018747                           | 01/29/2004                     | Lee, et al.                                        |                                                                                 |
|                    | A24                   | US-20040018723                           | 01/29/2004                     | Byun, et al.                                       |                                                                                 |
|                    | A25                   | US-20040018304                           | 01/29/2004                     | Chung, et al.                                      |                                                                                 |
|                    | A26                   | US-20040015300                           | 01/22/2004                     | Ganguli, et al.                                    |                                                                                 |
|                    | A27                   | US-20040014320                           | 01/22/2004                     | Chen, et al.                                       |                                                                                 |
|                    | A28                   | US-20040013577                           | 01/22/2004                     | Ganguli, et al.                                    |                                                                                 |

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Sheet 2

of 4

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|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                       | A29                      | US-20040011504                           | 01/22/2004                     | Ku, et al.                                         |                                                                                 |
|                       | A30                      | US-20040011404                           | 01/22/2004                     | Ku, et al.                                         |                                                                                 |
|                       | A31                      | US-20040009307                           | 01/15/2004                     | Koh, et al.                                        |                                                                                 |
|                       | A32                      | US-20039124262                           | 07/03/2003                     | Chen, et al.                                       |                                                                                 |
|                       | A33                      | US-20030224600                           | 12/04/2003                     | Cao, et al.                                        |                                                                                 |
|                       | A34                      | US-20030224578                           | 12/04/2003                     | Chung, et al.                                      |                                                                                 |
|                       | A35                      | US-20030224107                           | 12/04/2003                     | Lindfors, et al.                                   |                                                                                 |
|                       | A36                      | US-20030221780                           | 12/04/2003                     | Lei, et al.                                        |                                                                                 |
|                       | A37                      | US-20030216981                           | 11/20/2003                     | Tillman                                            |                                                                                 |
|                       | A38                      | US-20030213987                           | 11/20/2003                     | Basceri, et al.                                    |                                                                                 |
|                       | A39                      | US-20030213560                           | 11/20/2003                     | Wang, et al.                                       |                                                                                 |
|                       | A40                      | US-20030205729                           | 11/06/2003                     | Basceri, et al.                                    |                                                                                 |
|                       | A41                      | US-20030198754                           | 10/23/2003                     | Xi, et al.                                         |                                                                                 |
|                       | A42                      | US-20030194493                           | 10/16/2003                     | Chang, et al.                                      |                                                                                 |
|                       | A43                      | US-20030190804                           | 10/09/2003                     | Glenn, et al.                                      |                                                                                 |
|                       | A44                      | US-20030190423                           | 10/09/2003                     | Yang, et al.                                       |                                                                                 |
|                       | A45                      | US-20030186495                           | 10/02/2003                     | Saanila, et al.                                    |                                                                                 |
|                       | A46                      | US-20030173586                           | 09/18/2003                     | Moriwaki, et al.                                   |                                                                                 |
|                       | A47                      | US-20030172872                           | 09/18/2003                     | Thakur                                             |                                                                                 |
|                       | A48                      | US-20030168750                           | 09/11/2003                     | Basceri, et al.                                    |                                                                                 |
|                       | A49                      | US-20030153177                           | 08/14/2003                     | Tepman, et al.                                     |                                                                                 |
|                       | A50                      | US-20030143747                           | 07/31/2003                     | Bondestam, et al.                                  |                                                                                 |
|                       | A51                      | US-20030143328                           | 07/31/2003                     | Chen, et al.                                       |                                                                                 |
|                       | A52                      | US-20030140854                           | 07/31/2003                     | Kilpi                                              |                                                                                 |
|                       | A53                      | US-20030124262                           | 07/03/2003                     | Chen, et al.                                       |                                                                                 |
|                       | A54                      | US-20030121608                           | 07/03/2003                     | Chen, et al.                                       |                                                                                 |
|                       | A55                      | US-20030121469                           | 07/03/2003                     | Lindfors, et al.                                   |                                                                                 |
|                       | A56                      | US-20030116087                           | 06/26/2003                     | Nguyen, et al.                                     |                                                                                 |

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|                    | A57                   | US-20030113187                           | 06/19/2003                     | Lei, et al.                                        |                                                                                 |
|                    | A58                   | US-20030108674                           | 06/12/2003                     | Chung, et al.                                      |                                                                                 |
|                    | A59                   | US-20030106490                           | 06/12/2003                     | Jallepally, et al.                                 |                                                                                 |
|                    | A60                   | US-20030101927                           | 06/05/2003                     | Raaijmakers, et al.                                |                                                                                 |
|                    | A61                   | US-20030089308                           | 05/15/2003                     | Raaijmakers, et al.                                |                                                                                 |
|                    | A62                   | US-20030082307                           | 05/01/2003                     | Chung, et al.                                      |                                                                                 |
|                    | A63                   | US-20030082301                           | 05/01/2003                     | Chen, et al.                                       |                                                                                 |
|                    | A64                   | US-20030079686                           | 05/01/2003                     | Chen, et al.                                       |                                                                                 |
|                    | A65                   | US-20030072913                           | 04/17/2003                     | Chou, et al.                                       |                                                                                 |
|                    | A66                   | US-20030059538                           | 03/27/2003                     | Chung, et al.                                      |                                                                                 |
|                    | A67                   | US-20030057527                           | 03/27/2003                     | Chung, et al.                                      |                                                                                 |
|                    | A68                   | US-20030057526                           | 03/27/2003                     | Chung, et al.                                      |                                                                                 |
|                    | A69                   | US-20030053799                           | 03/20/2003                     | Lei                                                |                                                                                 |
|                    | A70                   | US-20030049931                           | 03/13/2003                     | Disney                                             |                                                                                 |
|                    | A71                   | US-20030022338                           | 01/30/2003                     | Ruben, et al.                                      |                                                                                 |
|                    | A72                   | US-20030010451                           | 01/16/2003                     | Tzu, et al.                                        |                                                                                 |
|                    | A73                   | US-20020127745                           | 09/12/2002                     | Lu, et al.                                         |                                                                                 |
|                    | A74                   | US-20020121342                           | 09/05/2002                     | Nguyen, et al.                                     |                                                                                 |
|                    | A75                   | US-20020121241                           | 09/05/2002                     | Nguyen, et al.                                     |                                                                                 |
|                    | A76                   | US-20020117399                           | 08/29/2002                     | Chen, et al.                                       |                                                                                 |
|                    | A77                   | US-20020106846                           | 08/08/2002                     | Seutter, et al.                                    |                                                                                 |
|                    | A78                   | US-20020086507                           | 07/04/2002                     | Park, et al.                                       |                                                                                 |
|                    | A79                   | US-20020086111                           | 07/04/2002                     | Byun, et al.                                       |                                                                                 |
|                    | A80                   | US-20020060363                           | 05/23/2002                     | Xi, et al.                                         |                                                                                 |

## **FOREIGN PATENT DOCUMENTS**

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|--------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |                |
|                    | B1                    | WO 03/23835                                                                       | 03/20/2003                     | Lee, et al.                                        |                                                                                 |                |

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